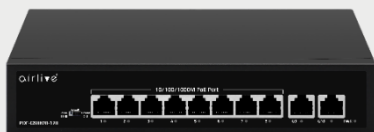# 10-port Gigabit POE Switch, 802.3af/at, 120W
10-port Gigabit incl 8x30W PoE, 2x1G RJ-45
POE-GSH820-120

airlive®

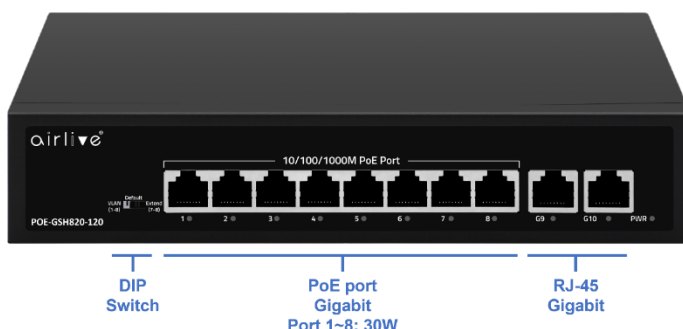| 802.3af/at 30w	Gigabit RJ-45	Surge / ESD protection
Extend Mode 250m	Hardware VLAN	Plug&Play

Overview

802.3af/at PoE Gigabit Switch, with 2x RJ-45 Uplink

The AirLive POE-GSH820-120 Gigabit switch is compliant with 802.3af(15W)/802.3at(30W). It supports 8 Gigabit PoE+ ports and 2 Gigabit RJ-45 uplink ports. The total PoE power is 120W. The AirLive POE-GSH820-120 switch is a plug and play unmanaged PoE switch with VLAN and 250meter cabling extension, which can be easily set up via its DIP switch. The two Gigabit Uplink ports help with connecting the switch to a larger network making the it the most cost-efficient client switch for various applications at Home or Office. Connect several PoE devices to the switch, Access Points or normal IP cameras can connect to any of the PoE ports on the switch and be powered on up to max 30W (at).

Features

- All 10-port, each port delivers Gigabit high speed
- 8 x PoE port 10/100/1000Mbps (up to 30W)
- Extend the network with 2 x 10/100/1000Mbps RJ-45 Uplink ports
- PoE power, supports 802.3af/at PoE
- Internal Power, 120W
- VLAN Mode, Extended Mode: transmission of up to 250M in Extend Mode, setting by hardware DIP switch
- Surge Protection; ESD Protection

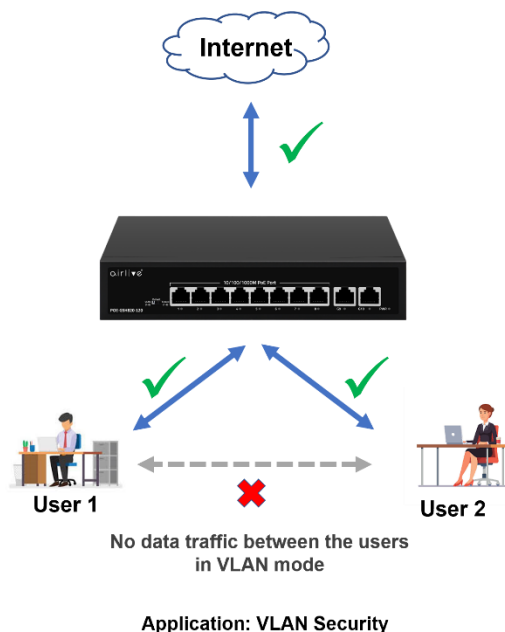DIP Switch | PoE port Gigabit Port 1~8: 30W | RJ-45 Gigabit

VLAN Mode

VLAN mode: This additional feature gives the switch extra security for the users connected to it. The VLAN mode works as Port isolation, meaning that when it's enabled the users connected to the LAN ports cannot communicate with each other but only communicate with the UP-Link ports (port 9/10). This way there is an extra layer of security and data will not be shared between the users. This can be used in a small office to separated guests from the company network or in a home to separate tenants.

Internet

User 1   **User 2**

No data traffic between the users in VLAN mode

Application: VLAN Security

Extend Mode

Extend mode: The POE-GSH820-120 switch can be set in Extend mode to reach a distance of up to 250m, this can be very useful in locations where it hard to get power to turn on your PD device. The Extend mode makes this easier. The Extend mode is only for Port 7 and 8 on the switch and when enabled the transmission rate will be 10Mbps. PoE Watchdog is also enabled when Extend mode is on.

Specification

Model	AirLive POE-GSH820-120

Hardware

- **Device Interface:**
  8 x 30W PoE 10/100/1000 RJ45
  2 x 10/100/1000 RJ-45 Uplink
- **Standard**
  IEEE802.3u 100Base-TX / 100Base-FX
  IEEE802.3ab Gigabit 1000Base-T
  IEEE802.3af/at PoE
  IEEE802.3x
- **Industry standard compliant**
  EMI: FCC Part 15 CISPR (EN55032) class A
  EMS: EN61000-4-2 (ESD), EN61000-4-5(Surge)
- **LED Indicators**:
  PWR (power supply), Link and Data
- **Mechanical**
  Metal

Power and PoE

- **Protocol**: IEEE802.3at (30W), IEEE802.3af (15.4W)
- **PoE Port**: 8
- **PoE Power Output / PoE Port**: max. 30W (port 1~8)
- **PoE Power/ Switch**: 120W

Surge and ESD protection

Common mode 4KV, ESD: Air 8KV, Contact 6KV

Switch Architecture | Performance

- **Switching architecture: Store and Forward**
  Switch Capacity: Back-plan up to 20Gbps
  Forwarding Rate; 14.88Mpps
  Memory cache: 448Kb
  MAC Address: 2K
  Jumbo Frame: 9216bytes
  Transfer mode: Store and forward
  MTBF:100000 hour

DIP Switch Control

- **VLAN:** Port isolation mode. In this mode PoE ports (1~8) cannot communicate with each other and can only communicate with the Up-Link ports 9~10.
- **Default:** Normal mode, all port can communicate with each other, the transmission distance is within 100m, the transmission rate is 10M/100/1000M adaptive
- **Extend:** Extension mode, PoE power supply and data transmission distance can be extended to 250 meter at the transmission rate 10Mbps Port 7~8 only. PoE Watchdog will also be enabled when the Extend mode is in use.

Power Supply

- **Input Voltage:** AC100~240V
- **Power Supply**: 52V/2.3A (120W) Internal, (52V2.88A 150W in option).

Environment

- **Operating Temperature:** -10°C~50°C
- **Storage Temperature:** -40°C~70°C
- **Working Humidity**: 10%~90%, non-condensing
- **Storage Humidity**: 5%~90%, non-condensing

Standard package of switch

- **Product size:**
  22 x 16.1 x 4.4 cm(L*W*H)
- **Package size:**
  31.5 x 21.5 x 8.5 cm(L*W*H)
- **Product Weight/Package Weight**
  NW: 0.88kg; G.W:1.38kg
- **Package content**:
  1 x Switch, 1 x Power Cord.

Standard carton package

- **Quantity:** 10 pcs / 1 carton
- **Dimensions**
  44.5 x 44.5 x 33.5 cm
- **Carton Weight**
  14.8Kgs

Ordering Information

- **Model:**
  POE-GSH820-120: 8 x PoE 10/100/1000, 2 x 1G RJ-45, 120W

* Specification will be changed without prior notice